

SEQUENCE LISTING

<110> Zauderer, Maurice

Smith, Ernest S.

<120> Targeted Vaccine Delivery Systems

<130> 1821.0020001

<150> US 60/196,472

<151> 2000-04-12

<160> 63

<170> PatentIn version 3.0

<210> 1

<211> 10

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Primer

<220>

<221> Unsure

<222> (10)..(10)

<223> May be any nucleotide

<400> 1
aatgctagcn

10

<210> 2

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Primer

<220>

<221> Unsure

<222> (16)..(16)

<223> May be any nucleotide

<400> 2

atttctagaa cttacn

16

<210> 3

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Primer

<400> 3
aattcttagag tctgtcccta acatgccc 28

<210> 4
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<221> misc_feature
<223> Primer

<400> 4
aaaggtacct ggaactgagg agcaggtg 28

<210> 5
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> misc_feature
<223> Primer

<400> 5
aatgcttagcg gctctcaactc catg 24

<210> 6
<211> 27
<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Primer

<400> 6

attgaattct taggtgaggg gcttggg

27

<210> 7

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> HLA Adapter

<400> 7

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10

<210> 8

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> HLA Adapter

<400> 8
tttcagctgg gggcgccggc ggctctggcg gcggcggttc tg 42

<210> 9

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> HLA Adapter

<400> 9
cagagccgcc ggcgccagag ccgcgcgcgc ccccaagctga aa 42

<210> 10

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Primer

<400> 10
aaagcttagcg gggacacccg acca 24

<210> 11

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Primer

<400> 11

aaagaattca ttcatcttgc tctgtgcaga tt

32

<210> 12

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Primer

<400> 12

aattcttagag aactgtggct gcaccat

27

<210> 13

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Primer

<400> 13
aaaggtagcca cactctcccc tggtaaagg 29

<210> 14

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Primer

<400> 14
aaagcttagca tcaaagaaga acatgtgatc 30

<210> 15

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Primer

<400> 15
tttaagctt tagttctctg tagtctctgg gagagg 36

<210> 16

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> DRA Adapter 1

<400> 16

cggcgccggc ggctctggcg gcggcggtc tg

32

<210> 17

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> DRA Adapter 1

<400> 17

ctagcagagc cgccgccc agagccgccc ccgcccgtac

40

<210> 18

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Spacer

<400> 18

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly
20 25 30

Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly
35 40 45

Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser
50 55 60

<210> 19

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Spacer

<400> 19

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser
20 25 30

<210> 20

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Primer

<400> 20
aaaggtaccc atcttgctct gtgcagatt 29

<210> 21

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Primer

<400> 21
aaaactagta tcaaagaaga acatgtgatc 30

<210> 22

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Primer

<400> 22
tttgaattct tagttctctg tagtctctgg gagagg 36

<210> 23

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> DRA 2

<400> 23

cggcggcggc ggctctggcg gggcgggca

29

<210> 24

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> DRA 2

<400> 24

ctagtgcgcg cggccaga gcccggccg ccgtac

37

<210> 25

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Adapter

<400> 25

Gly Gly Gly Gly Ser Gly Gly Gly Gly
1 5

<210> 26

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Primer

<400> 26

ggggacaccc gacca

15

<210> 27

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Primer

<400> 27

gactcgccgc tgactgt

18

<210> 28

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Primer

<400> 28

atcaaagaag aacatgtgat c

21

<210> 29

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Primer

<400> 29

ggtgatcgga gtatagttgg

20

<210> 30

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Primer

<400> 30

gtgcagcggc gagtcatcaa agaagaacat gtgatc

36

<210> 31
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> misc_feature
<223> Primer

<400> 31
aaagcttagcg gggacaccccg acca 24

<210> 32
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<221> misc_feature
<223> Primer

<400> 32
aaagaattct taggtgatcg gagtatagtt gg 32

<210> 33
<211> 354
<212> DNA
<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35

<220>

<221> CDS

<222> (1) .. (354)

<400> 33

gcc gcg atg agc ggg gag ccg ggg cag acg tcc gta gcg ccc cct ccc 48
Ala Ala Met Ser Gly Glu Pro Gly Gln Thr Ser Val Ala Pro Pro Pro
1 5 10 15

gag gag gtc gag ccg ggc agt ggg gtc cgc atc gtg gtg gag tac tgt 96
Glu Glu Val Glu Pro Gly Ser Gly Val Arg Ile Val Val Glu Tyr Cys
20 25 30

gaa ccc tgc ggc ttc gag gcg acc tac ctg gag ctg gcc agt gct gtg 144
Glu Pro Cys Gly Phe Glu Ala Thr Tyr Leu Glu Leu Ala Ser Ala Val
35 40 45

aag gag cag tat ccg ggc atc gag atc gag tcg cgc ctc ggg ggc aca 192
Lys Glu Gln Tyr Pro Gly Ile Glu Ile Glu Ser Arg Leu Gly Gly Thr
50 55 60

ggt gcc ttt gag ata gag ata aat gga cag ctg gtg ttc tcc aag ctg 240
Gly Ala Phe Glu Ile Glu Ile Asn Gly Gln Leu Val Phe Ser Lys Leu
65 70 75 80

gag aat ggg ggc ttt ccc tat gag aaa gat ctc att gag gcc atc cga 288
Glu Asn Gly Gly Phe Pro Tyr Glu Lys Asp Leu Ile Glu Ala Ile Arg
85 90 95

aga gcc agt aat gga gaa acc cta gaa aag atc acc aac agc cgt cct 336
Arg Ala Ser Asn Gly Glu Thr Leu Glu Lys Ile Thr Asn Ser Arg Pro
100 105 110

ccc tgc gtc atc ctg tga 354
Pro Cys Val Ile Leu
115

<210> 34

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35

<400> 34

Ala Ala Met Ser Gly Glu Pro Gly Gln Thr Ser Val Ala Pro Pro Pro
1 5 10 15

Glu Glu Val Glu Pro Gly Ser Gly Val Arg Ile Val Val Glu Tyr Cys
20 25 30

Glu Pro Cys Gly Phe Glu Ala Thr Tyr Leu Glu Leu Ala Ser Ala Val
35 40 45

Lys Glu Gln Tyr Pro Gly Ile Glu Ile Glu Ser Arg Leu Gly Gly Thr
50 55 60

Gly Ala Phe Glu Ile Glu Ile Asn Gly Gln Leu Val Phe Ser Lys Leu
65 70 75 80

Glu Asn Gly Gly Phe Pro Tyr Glu Lys Asp Leu Ile Glu Ala Ile Arg
85 90 95

Arg Ala Ser Asn Gly Glu Thr Leu Glu Lys Ile Thr Asn Ser Arg Pro
100 105 110

Pro Cys Val Ile Leu
115

<210> 35

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> ovalbumin 257-264 peptide

<400> 35

Ser Ile Ile Asn Phe Glu Lys Leu
1 5

<210> 36

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Primer

<400> 36

cggcgagatg tctcacagga

20

<210> 37

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Primer

<400> 37

accccacat ctgcacaaag

20

<210> 38

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35 peptides

<400> 38

Ser Val Ala Pro Pro Pro Glu Glu Val
1 5

<210> 39

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35 peptides

<400> 39

Val Ala Pro Pro Pro Glu Glu Val
1 5

<210> 40

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35 peptides

<400> 40

Glu Val Glu Pro Gly Ser Gly Val
1 5

<210> 41

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35 peptides

<400> 41

Glu Val Glu Pro Gly Ser Gly Val Arg Ile
1 5 10

<210> 42

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35 peptides

<400> 42

Glu Ala Thr Tyr Leu Glu Leu Ala
1 5

<210> 43

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35 peptides

<400> 43

Ala Thr Tyr Leu Glu Leu Ala Ser Ala
1 5

<210> 44

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35 peptides

<400> 44

Ala Thr Tyr Leu Glu Leu Ala Ser Ala Val
1 5 10

<210> 45

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35 peptides

<400> 45

Tyr Leu Glu Leu Ala Ser Ala Val
1 5

<210> 46

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35 peptides

<400> 46

Ser Ala Val Lys Glu Gln Tyr Pro Gly Ile
1 5 10

<210> 47

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35 peptides

<400> 47

Ala Val Lys Glu Gln Tyr Pro Gly Ile
1 5

<210> 48

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35 peptides

<400> 48

Gly Ile Glu Ile Glu Ser Arg Leu
1 5

<210> 49

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35 peptides

<400> 49

Glu Ile Glu Ser Arg Leu Gly Gly Thr
1 5

<210> 50

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35 peptides

<400> 50

Arg Leu Gly Gly Thr Gly Ala Phe Glu Ile
1 5 10

<210> 51

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35 peptides

<400> 51

Gly Thr Gly Ala Phe Glu Ile Glu Ile
1 5

<210> 52

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35 peptides

<400> 52

Glu Ile Glu Ile Asn Gly Gln Leu
1 5

<210> 53

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35 peptides

<400> 53

Glu Ile Glu Ile Asn Gly Gln Leu Val
1 5

<210> 54

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35 peptides

<400> 54

Asp Leu Ile Glu Ala Ile Arg Arg Ala

1 5

<210> 55

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35 peptides

<400> 55

Leu Ile Glu Ala Ile Arg Arg Ala
1 5

<210> 56

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35 peptides

<400> 56

Ala Ile Arg Arg Ala Ser Asn Gly Glu Thr
1 5 10

<210> 57

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35 peptides

<400> 57

Arg Ala Ser Asn Gly Glu Thr Leu
1 5

<210> 58

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35 peptides

<400> 58

Lys Ile Thr Asn Ser Arg Pro Pro Cys Val
1 5 10

<210> 59

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35 peptides

<400> 59

Ile Thr Asn Ser Arg Pro Pro Cys Val
1 5

<210> 50

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35 peptides

<400> 60

Ile Thr Asn Ser Arg Pro Pro Cys Val Ile
1 5 10

<210> 61

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35 peptides

<400> 61

Glu Val Glu Pro Gly Ser Gly Val Arg
1 5

<210> 62

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35 peptides

<400> 62

Glu Pro Cys Gly Phe Glu Ala Thr Tyr
1 5

<210> 63

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> C35 peptides

<400> 63

Ala Ser Asn Gly Glu Thr Leu Glu Lys
1 5